

# WHAT IS CLAIMED IS :

1 – Wideband antenna consisting of a dielectric resonator (1, 10) mounted on a substrate with an earth plane, wherein the dielectric resonator is positioned at a distance  $x$  from at least one of the edges of the earth plane,  $x$  being chosen such that  $0 \leq x \leq \lambda_{\text{diel}}/2$ ,

with  $\lambda_{\text{diel}}$  the wavelength defined in the dielectric of the resonator.

2 – Antenna according to Claim 1, wherein the substrate with an earth plane consists of an element of dielectric material at least one face of which is metallized and constitutes an earth plane.

3 – Antenna according to Claim 2, wherein the face carrying the resonator is metallized, and the resonator is fed by coupling through a slot made in the metallization by a feedline made on the opposite face.

4 – Antenna according to Claim 2, wherein the face opposite the face carrying the resonator is metallized and the resonator is fed via a feedline made on the face carrying the resonator.